



# CDRCS91MP

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## INSTRUCTION/OWNERS MANUAL

**DTH TYPE AM/FM RADIO WITH  
CD MP3 ESP PLAYER AND 4CH HIGHPOWER  
CAR AUDIO SYSTEM**

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## TROUBLESHOOTING

Problem	Cause	Action
Unit will not turn on (no power)	Yellow wire not connected or incorrect voltage	Check connections for proper voltage (11-14VDC)
	Red wire not connected or incorrect voltage	
	Black wire not connected	
	Fuse blown	
Unit has power (but no sound)	Speaker wires not connected	Check connections at speakers
	One or more speaker wires touching each other or touching chassis ground	Insulate all bare speaker wires from each other and chassis ground
Unit blows fuses	Yellow or red wire touching chassis ground	Check for pinched wire
	Speaker wires touching chassis ground	Check for pinched wire
	Incorrect fuse rating	Use fuse with correct rating
Excessive skipping	Unit is not mounted correctly or backstrap is not secure	Check mounting sleeve and backstrap support
	Physical defect in media (CD, CD-R / CD-RW)	Check media for scratches
ERROR1 appears on display	Mechanism error	Press eject or RESET
ERROR2 appears on display	Servo error or disc is in upside down	Press eject or RESET

## SUPPLIED MOUNTING HARDWARE FOR INSTALLATION

### INSTALLATION

The installation scenario described in this manual assumes that you have a typical car. If your specific car requires any adjustments or modifications, consult your nearest DELOS car audio dealer.

### PRECAUTIONS

- This unit is designed for negative-ground, 12-V DC operation only.
- Before starting installation, make sure the ignition switch is set to OFF and disconnect the ground terminal of the car battery to avoid short-circuiting.
- Install the unit where it will not injure the operation of the vehicle.
- Install the unit where it will not injure the passenger if there is a sudden stop, like an emergency stop.
- Avoid installing the unit where it would be subject to high temperatures caused by direct sunlight or hot air from the heater, or where it would be subject to dust, dirt or excessive vibration.
- Use only the supplied mounting hardware for a safe and secure installation.

### REINSTALLATIONS → [A]

If there is installation hardware for another receiver already in the dashboard, it must be removed. Before installing the unit in the dashboard, Remove the trim plate from the unit. Then, please remove the screws (① ②) on the top of unit.

### FRONT PANEL INSTALLATION → [B]

Store the detachable in its protective case for safe keeping. To drop /take away /install and recover front panel, see the [B] picture.

### BASIC INSTALLATION → [C]

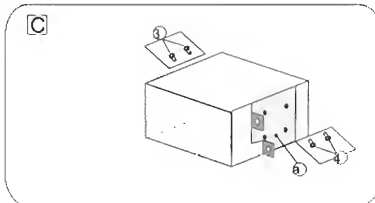
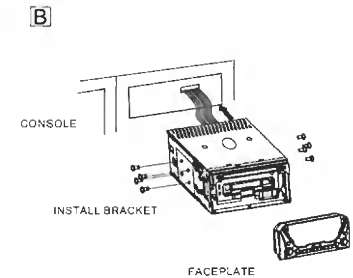
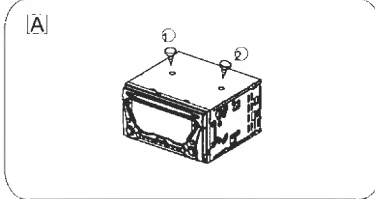
Note that the installation show is a typical example.

For some car types you may need to make adjustments or modification to make adjustments or modification to install the unit. If your car is of such type, consult your nearest DELOS car audio dealer.

### Mounting-angle adjustment

The mounting angle should be 30 degrees or less from horizontal.

**Caution on installation without using the sleeve**  
Be sure to use the screws (③ ④) to attach the mounting brackets. ⑤ (Not supplied).



## WIRING INSTRUCTION

### Speakers Connection

This unit can mate with 4 as well as 8 speakers. Make sure power is off before connecting.

### Caution:

Do Not Short speaker wires to chassis ground. It may cause severe damage.

### Ground Connection

Connect Black Wire to Ground terminal. If not found, connect it to the chassis instead.

### Power Connection

First connect the Yellow Wire (w/10Amp fuse block) directly to +12v battery power. Make sure no other device, such as switch, is in between. Then connect Red Wire (w/1 Amp fuse block) to ignition output.

### Antenna Connection

Insert coaxial connector to antenna socket.

### Caution:

If a fuse is blown, only replace it with one of the same rating. Otherwise may cause severe damage. Repeated blown fuse indicates potential problem(s) exists. A thorough inspection is recommended.

## SPECIFICATIONS

### GENERAL

Power Supply: DC 13.8 Volts, Negative Ground  
Current consumption: 10A MAX  
Maximum Output Power: 4x50W

### FM TUNER SECTION

Frequency Range: 87.5MHz - 107.9MHz  
Usable sensitivity: 3uV.  
I. F. Frequency: 10.7MHz

### AM TUNER SECTION

Frequency Range: 530KHz - 1710KHz

### TAPE SECTION

Wow & Flutter: 0.1%  
S/N Ratio: 52dB  
Separation: 45dB  
Frequency Response: 50Hz - 15KHz

### CD SECTION

System: Compact disc audio system  
Signal Format: Sampling Frequency 44.1KHz  
No of quantization bits 1bit  
Frequency: 20-100Hz < 5dB / 10K-20KHz < 5dB  
S/N Ratio: 70dB (1KHz) (IEC-A network)  
Number of channels: 4 STEREO

### RCA

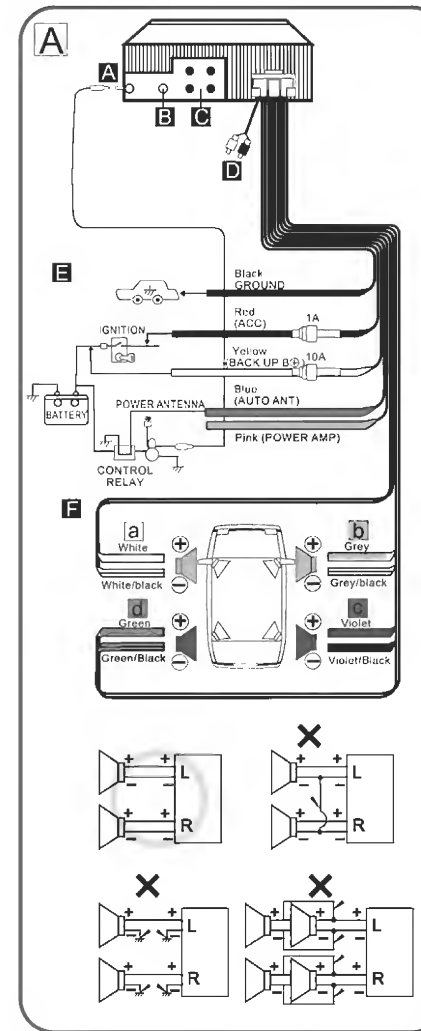
RCA line output: 450-1500 mv

## MENU KEY OPERATION

MENU MODE is established by entering the MENU key and MENU UP/DN key for selection

MENU	DESCRIPTIONS	ACTIVATION MODE	DEFAULT	NOT USE
SEMI DSP	POP-POCK-CLASSIC-FLAT-DSP OFF	ALL	DSP OFF	
ESP 10	ESP10: Selected as ESP time 10 seconds.	ALL	ESP10s	
SEEK1/ SEEK2	SEEK1: SEEK is activated right away when key is pressed for longer than 500ms. SEEK2: SEEK is activated after key is released.	RADIO	SEEK1	
LAST VOLUME/ ADJUST VOLUME	VOLUME LEVEL is determined when POWER ON. LAST VOLUME: Final VOLUME LEVEL generates power before power OFF. ADJUST VOLUME: VOLUME LEVEL selected by the user is produced.	ALL	Volume level 20 (-33.75dB)	

## WIRING DIAGRAM



## CONNECTIONS

## PRECAUTIONS

## PRECAUTION ON MAKING CONNECTIONS

Before connecting, make sure that the ignition switch is set to OFF. And remove the ground terminal of the battery to protect the unit and your car from damage.

## Caution

make the connection correctly, as illustrated in the connection diagram. Do not connect the negative (-) cord of each speaker wire to a common point.

When replacing the fuse, Be sure to use a fuse of the same rated amperage.

Use of a fuse of a higher rating may cause serious damage to the unit.

## CONNECTION DIAGRAM → a b c d

One or more of the connectors **B**, **C** and **F** may not exist on the model you purchased. Make the appropriate connection or connections according to the configuration of your unit. See the section "SPECIFICATIONS" of the separate Operating Instructions.

**A** From the car antenna**B** CD Changer (optional)**C** To the out per jack of the optional power amplifier (Line out) Colors of leads**D** Aux in**E** To the wiring of the vehicle colors of leads

**Black** (ground lead to be connected to vehicle metal body.)

**Red** (ACC lead to be connected to the terminal from which power is supplied when the ignition switch is set to AC.)

**Yellow** (battery lead to be connected to the backup terminal of the vehicle power is supplied.)

**Blue** (power antenna lead to be connected to the terminal of the control)

This lead is not used for a vehicle with a manual antenna or a switch operated

**F** antenna or a switch operated power antenna. If you will use the optional power amplifier with the unit, connect this lead to the remote terminal of the amplifier.)

**Pink** (Power amp remote control)

## Speaker connections

## 4-SPEAKER CONNECTIONS

**Note**  
lies speakers with an impedance of 4 to 8 ohms and with adequate power handling capacities. Otherwise, the speakers may be damaged.

Do NOT connect the speakers in parallel.

Do NOT connect the terminal of the speakers system to the car chassis.

## CONTROL LOCATIONS




- |                    |  |
|--------------------|--|
| ① MONO/STEREO      | ⑫ M4/RDM                                   |
| ② DISC SLOT BUTTON | ⑬ M3/RPT                                   |
| ③ LCD/DISPLAY      | ⑭ M2/INT                                   |
| ④ EJECT            | ⑮ M1/PLAY/TOP/PAUSE                        |
| ⑤ AS/PS,SEARCH     | ⑯ SOUND EFFECT                             |
| ⑥ T-UP/DOWN        | ⑰ MUTE                                     |
| ⑦ REL              | ⑱ POWER                                    |
| ⑧ MODE             | ⑲ SELECT CONTROL BUTTON<br>(VOL-BASS-TREB) |
| ⑨ BAND/LOUD        | ⑳ V-UP, V-DOWN                             |
| ⑩ M6               | ㉑ OPEN                                     |
| ⑪ M5               |  |

- Superior anti-shock performance(CD-10' S MP3-100'S)
- Superior disc reading ability: Able to read CDMp3
- Superior ECC(error correction code) capability
- Color LCD display(black mask)

## Mp3 Player Operation


**Root Folder Navigate** Press **SELECT** three times to navigate from the root folder. The root folder name is briefly displayed, after which the first track or subfolder name is displayed.

**Step2** If a subfolder is selected, the  icon will illuminate. Press "V" (or turn rotary encoder to the down) first, to preview the desired track or subfolder. NOTE: "V" must be pressed first (or turn the rotary encoder to the down) to continue navigating.

**Step3** Press **ENTER** to select the desired track or subfolder. If a subfolder is selected, two "V" will illuminate. Press **ENTER** first, then "V" (or turn the rotary encoder to the down) to begin navigating the selected subfolder. NOTE: "V" must be pressed first (or turn the rotary encoder to the down) to navigate within the subfolder.

**Step4** Press **ENTER** to select the desired track within the folder.

**Current Folder Navigate** Press **SELECT** four times to navigate the current folder. The current folder name is displayed. After the current folder name is displayed, the currently playing track name is displayed.

**Step2** If a subfolder is selected, the  icon will illuminate. Press "V" (or turn the rotary encoder to the down) first, to preview the desired track or subfolder. NOTE: "V" must be pressed first (or turn the rotary encoder to the down) to continue navigating.

**Step3** Press **ENTER** to select the desired track or subfolder. If a subfolder is selected, two "V" will illuminate in the LCD. Press **SELECT** first, then "V" (or turn the rotary encoder to the down) to begin navigating the selected subfolder. NOTE: "V" must be pressed first (or turn the rotary encoder to the down) to navigate within the subfolder.

**Step4** Press **ENTER** to select the desired track within the folder.

## Mp3 Player Operation

## Mp3 MODEL

The following keys are assigned as mp3 disc plays. Key assigned in searching mode.

## Remark:

- 1.M5 and M6 is assigned as 10 track when normal play and Searching file or directory.
- 2.the seconds press as/ps write english (a、b-y、z、\_、-、+).

AS/PS	MODE SELECT
BAND	ENTER
M1	A,B,C,1
M2	D,E,F,2
M3	G,H,I,3
M4	J,K,L,4
M5	M,N,O,5
M6	P,Q,R,6
MODE	S,T,U,7
DSP(SOUND)	V,W,X,8
MUTE	Y,Z,SPACE,9
CLOCK	.,+,-,0
VOL SEL	CHAR,SHIFT
VOL UP/DOWN	CHAR_SEL(A,B-8,9,0)

## Mp3 Direct Select Search and Navigate Modes

Press **SELECT** to select between the following Mp3 Modes:

- Direct Numeric Track Select
- Alphanumeric Track or Folder Search
- Root Folder Navigate
- Current Folder Navigate

## Direct Numeric Track Select

Press **SELECT** one time. "Mp3 T\*" will flash in the display. Use the buttons in the above table (3 keystroke maximum input), or the rotary encoder to enter the desired track number.

## Step2

Press **ENTER** to confirm the selected track number or, wait for the input cycle to time out(approximately 4 seconds).


## Alphanumeric Track or Folder Search

Press **SELECT** two times, an "\*" will flash in the display. Use the buttons in the table on page 10(16 keystroke maximum input) or the rotary encoder or enter the desired alphanumeric search characters. Press **AUDIO** for character shift.

## Step2

Press **ENTER** to initiate the selected alphanumeric search.

## Step3

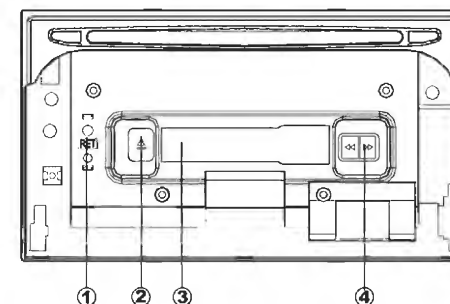
Press "√"(or turn the rotary encoder to the down), first to preview the search results. If the search returns a folder, the  icon will illuminate. NOTE: "√" must be pressed first (or turn the rotary encoder to the down to continue the search.

## Step4

Press **ENTER** to select the desired track or folder. If a folder is selected, two "√" will illuminate. Press **ENTER** first, then "√" (or turn the rotary encoder to the down) to begin searching the selected folder. NOTE: "√" must be pressed first (or turn the rotary encoder to the down) to search within the folder.

## Step5

Press **ENTER** to select the desired track within the folder.



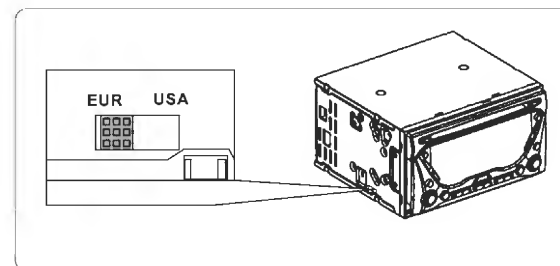
## ① RESET BUTTON

② EJECT BUTTON  
push down to eject the cassette tape.

③ CASSETTE COMPARTMENT  
insert a tape into the cassette compartment. The unit will automatically switch from 'TAPE' will be shown on display.

④ FAST FORWARD/REWIND/PROGRAM BUTTON  
Fast forward/rewind: Press the button with the double arrows pointing the same direction as the direction indicator in the LCD to fast forward. Press the other button in the opposite direction to rewind.  
Program: Push down both buttons together to play the other side of the tape.

Radio frequency area option:(see the picture )



## GETTING STARTED

<b>POWER ON/ OFF</b>	When system is on, by pressing this key, the radio system goes into power off mode. All information about its current setting, and restores the information when switched on again. The system comes to ON by pressing any key.
<b>OPEN</b>	Press the OPEN to allow the front panel to fold down.
<b>DSP</b>	This key serves to switch DSP SOUND control with following to fling mode. ->FLAT->CLASSIC->POPM ->DSP OFF ->In each DSP control mode, the default curve is offered by the E.VOL. And the DSP off mode, the sound is controlled by last BASS/TREB data.
<b>VOL UP/ VOL DN</b>	Up down operation of VOL/BAS/TREB/BAL/FAD is implemented and the selection of the each mode of BEEP is used. The control mode of E.VOL is operated with following numeric display. In case of LOUDNESS the point of full operation (bass=10~15dB treb=4dB) is from less than VOL display no.50. When radio is on, the volume level is smoothly increased from 0 to last set level.  <b>BASS</b> 1. Press SEL button once display shows BAS 2. To adjust BAS level, the knob left or right. <b>TREBLE</b> 1. press SEL button twice, display shows TRE 2. To adjust TRE level, the knob left or right. <b>BALANCE</b> 1. Press select button three times, display shows BAL 2. To adjust BAL level, the knob left or right. <b>FADER</b> 1. Press select button four times, display shows FAD 2. To adjust FAD level, the knob left or right.
<b>BAND/LOUD</b>	when short pressing band(loud) the FM/AM band is toggled OF CHANGER. Cyclically through the tuning bands. FM1->FM2->FM3->MW The loudness mode in E.VR is activated by pressing this key for more than 1 second. LOUD of individual sag is turned on when LOUD mode is engaged. LOUD of individual sag is turned off when LOUD mode is released.
<b>FACEPLATE REMOVAL</b>	Press RELEASE and pull away from the left side to remove. To re-install, insert right side of faceplate first then push left side to secure. *For semi-permanent faceplate installation. Remove trim ring and install supplied phillips head #1 screw through left side of mounting frame into faceplate.

## GETTING STARTED

<b>MUTE</b>	This key serves to switch the "muted" state on/off. The releasing mode of the mute state is when any key is pressed again.
<b>AS/PS SEARCH</b>	When short pressing: The radio searches for each preset station. When the field strength level is more than the threshold level of stop level, the radio is holding at preset number for few seconds with releasing mute, and then searches again. In FM band, FM1, FM2 and FM3 is checked one at a time. When long pressing (more than 1 second) The radio searches from the current frequency and checks the signal strength, level until 1 cycle search is finished. And then 6 strongest stations are preset to the corresponding preset number. The AS operation is finished, the radio executes the Preset scan.
<b>M1(PAUSE) M2(INT) M3(RPT) M4(RDM) M5/M6</b>	M1~M6 When pressed short, these keys select a preset station directly. When pressed longer than 1 sec. (until 2'nd beeps come out), current station is stored in preset memory bank.
<b>MODE</b>	When pressed short, it is used as the selection of each function. When a mode is selected, the sound source switching is controlled in E.V.R. And relative port control is also implemented. >RADIO >CDP >TAP >AUX When a CDP is existed inside, S-CDP of individual segment is turned on.
<b>INSERT/ EJECT CD DISC</b>	1. Press the PWR button to turn the unit on. 2. Insert the CD, and then display shows CD sign, playing begins to start automatically. When the last track on disc playing finished, the disc track number will return to track one, and play again. 3. Press the (▲) button to eject the CD disc from the slot; If the disc has not yet been taken away within 10 seconds, it will automatically be loaded into the slot again, but will not play.
<b>CD FUNCTION</b>	1. CDP MODE As lift indication, pause, scan, repeat, shuffle of CDP is selected. 2. CDP Mp3 mode .Pause function of CDP is selected by M1(PAUSE) key. .When pressed M2~4 short, SCAN, REPEAT, SHUFFLE function in whole disc is selected. .When pressed M2~4 longer than 1 sec. (until 2'nd beeps come out), D-SCAN, D-REPEAT, D-SHUFFLE function in only current directory of disc is selected. In these mode, the unit plays only in current directory. EX). In D-REPEAT mode, only the music of current directory is selected by track up/down key. .M5 key works as 10 track down. .M6 key works as 10 track up.